TM 9-3830-206-35P

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

FIELD AND DEPOT REPAIR PARTS LIST

FOR

WINCH ASSEMBLY (3830-753-8687, 2520-040-2112, AND HG-W2868D)

SEE INSIDE COVER FOR END ITEM APPLICATION

HEADQUARTERS, DEPARTMENT OF THE ARMY
OCTOBER 1962

END ITEM APPLICATION

VEHICLE	*TM No.*
CHASSIS, TRUCK: 2½-ton, 6 x 6, M44, M45, M45C, M46, M57, M58	9-8022
CHASSIS, TRUCK: 2½-ton, 6 x 6, M133, M207, M207C	9-8024
TRUCK, CARGO: 2½-ton, 6 x 6, M35A1	9-2320-235-10
TRUCK, CARGO: 2½-ton, 6 x 6, M34, M35, M36, M36C	9-8022
TRUCK, CARGO: 2½-ton, 6 x 6, M135, M211	9-8024
TRUCK, CARGO, DUMP: 2½-ton, 6 x 6, M342	9-8022
TRUCK, DUMP: 2½-ton, 6 x 6, M47, M59	9-8022
TRUCK, DUMP: 2½-ton, 6 x 6, M215	9-8024
TRUCK, MAINTENANCE: Earth Boring Machine and Pole Setter, 2½-ton, 6 x 6, V18A/MTQ	9-8022
TRUCK, MAINTENANCE: Telephone Construction, 2½-ton, 6 x 6, V17A/MTQ	
TRUCK, TANK: Gasoline, 2½-ton, 6 x 6, 1,200-gal, M49	
TRUCK, TANK: Fuel Servicing, 2½-ton, 6 x 6, 1,200-gal, M49C	
TRUCK, TANK: Water, 2½-ton, 6 x 6, 1,000-gal, M50	
TRUCK TRACTOR: 2½-ton, 6 x 6, M48, M275	
TRUCK TRACTOR: 2½-ton, 6 x 6, M221	9-8024
TRUCK, VAN: Shop, 2½-ton, 6 x 6, M109, M109C	9-8022
TRUCK, WRECKER: Crane, 2½-ton, 6 x 6, M108	
TRUCK, WRECKER: Light, 2½-ton, 6 x 6, M60	

TECHNICAL MANUAL
No. 9-3830-206-35P

* TM 9-3830-206-35P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON 25, D.C., 10 OCTOBER 1962

FIELD AND DEPOT MAINTENANCE REPAIR PARTS
FOR
WINCH ASSEMBLY
(3830-753-8687, 2520-040-2112, HG W2868D)

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* This manual supersedes pertinent portions of ORD 8 SNL G742, 9 September 1957, and ORD 8 SNL G749, 4 April 1957.

SECTION I - INTRODUCTION

PREFACE

1. General

a. This manual is an illustrated list of repair parts and special tools allocated to Field and Depot Maintenance columns and indicates the estimated quantities of component parts and equipment authorized for support of field and depot maintenance.

b. For third echelon, this list contains all items authorized for initial stockage for third-echelon maintenance and for supply support to second echelon.

c. For fourth echelon, this list contains items authorized for initial stockage for fourth-echelon maintenance.

d. For fifth echelon, this list serves as a guide for recommended repair parts for the rebuild of 100 major components and/or major end items.

e. The non-supply items are not stocked for issue and are contained herein for identification only. They are not allocated in Field and Depot Maintenance columns.

f. For prices of Ordnance items listed herein, see the appropriate supply manual of the SM 9-2 series, Stock List of All Items - Price List. Prices of items that are the responsibility of technical services other than Ordnance may be obtained from the appropriate type 2 supply manuals for those services.

g. Additional applications of items in this manual are listed in the supply manuals of the SM 9-3 series, Stock List of Repair Parts.

2. Illustration and Text Relationship

a. Illustrated supply items are keyed by numbers to their text listing. In all cases, the illustration and its listing will be on the same or the facing page.

b. Non-illustrated supply items, if any, are listed under the text of the illustrated assembly to which they are most closely related.

c. Non-supply items are not listed in the text but will be identified by name, part number in a legend on the illustration, and the identifying key number will be encircled to indicate non-supply status.

3. Requisition Notes

a. If the exact item requisitioned is not furnished, or if other action is necessary, the exact nature of the action taken by the supplying agency will be indicated by standard symbols on prescribed forms.

b. When requisitioning an item, the requesting agency will order the listed item. However, the supplying agencies will take necessary action to issue the exhaust stock item until stock is exhausted, whether it be an individual item, kit, set, or assembly.

4. Explanation of Columns

a. Illustrations. This column indicates the figure number of the illustration that depicts the item. When more than one item appears on the illustration, the item number is also indicated.

b. Source, Maintenance, and Recoverability Code. This column lists a code that indicates the selection status and source of supply of the repair part, the lowest echelon authorized to install or manufacture the repair part, and the recoverability and expendability aspects of the repair part. An example of this code is P-O-R. The "P" indicates that the item is a mission stockage list repair part procured and stocked on a national program basis, the "O" indicates the repair part is authorized to organizational echelons, and the "R" indicates that the repair part is an expendable, recoverable item. When repair parts supply responsibility has been assigned to a technical service other than Ordnance, the basic number of the supplying technical service is listed in column 2a, for example, "11" for a Signal Corps item. Refer to paragraph 8 for an explanation of all codes appearing in this manual.

c. Federal Stock Number. This column lists the Federal stock number assigned by the Cataloging Division, Armed Forces Supply Support Center.

d. Description. The Federal item name (shown in capital letters) and any additional description required for supply operations are listed in this column. All dimensions listed are in inches unless otherwise specified. For further identification, the technical service or manufacturer's part number is parenthetically listed at the end of each nomenclature.

e. Unit of Issue. The Unit of Issue column lists the actual unit of issue for each item (ea, ft, lg, etc.).

f. Quantity Incorporated in Unit. The quantity shown in this column indicates the number of the listed item required for the particular use indicated. This quantity does not reflect the total quantity of the part required for the vehicle or component since the part may have other functional uses.

g. 15-Day Maintenance Allowance Per 100 Major Items.

(1) This column lists an allowance factor which is based on the latest mortality data and is the estimated average quantity of the item required to provide field maintenance and, where applicable, supply support for 100 equipments for a 15-day period under combat conditions. A decimal fraction system is used to express allowance factors.

(2) Since the allowance factors are based on 100 equipments, it is necessary to compute the exact quantity authorized. This quantity is determined by use of a simple mathematical

formula. Resulting fractional values of 0.5 or larger will be rounded to the next higher whole number. Fractional values below 0.5 will be rounded to the next lower whole number.

Example 1: If the number of equipments supported is 30, and the allowance factor for 100 equipments is 1.9, the following computation would be made:

$$\frac{30 \times 1.9}{100} = 0.57$$

Since the resulting figure is larger than 0.5, the echelon would be authorized a quantity of 1.

Example 2: If the number of equipments supported is 89, and the allowance factor for 100 equipments is 3.4, the following computation would be made:

$$\frac{89 \times 3.4}{100} = 3.026$$

In this instance, the result is rounded to the next lower whole number since the fractional value is less than 0.5 and the echelon would be authorized a quantity of 3.

(3) Additional items not expected to fail during the first year, but which may be required to perform authorized field maintenance in subsequent years, are listed with no allowance factors shown. These parts are identified by an asterisk (*) in the allowance columns and are to be requisitioned as required for immediate use only.

(4) The determined computed quantity represents the initial stockage for a 15-day period. Major commanders will prescribe the period of time that will be used to compute stockage for each echelon.

(5) Field supply units (fourth-echelon tables of equipment supply companies and posts, camps, and stations) will compute their loads considering the number of Ordnance units to be supported and/or major item density, and utilizing figures in the field maintenance column.

(6) To enable the Ordnance Corps to make equitable distribution of the total stock of any one item, Ordnance organization commanders should limit their requisitions and stocks to the absolute minimum requirements that are estimated to be necessary for each contemplated tactical operation. The chief Ordnance officer of a force is responsible that various Ordnance units in the force do not use the same items in computing their stocks; for example, if there is a grand total of 102 winches in the entire force, each Ordnance unit in the force should not claim the entire 102 winches as a basis for computing its stock. The chief Ordnance officer must allocate, for repair-parts-stockage purposes, the number of items in the force among the various units. See Supply Functions of the Company, FM 9-10.

h. Depot Maintenance Guide Per 100 Major Items.

(1) This column lists the guide quantity factors for the repair parts recommended for the rebuild of 100 major components and/or major end items.

(2) The quantities indicated in this column are for initial requisition. They will be revised by the depot organization to conform to actual usage, which may be more or less than the quantities indicated herein.

(3) To compute the maintenance stock level for more or less than 100 items, the example cited in 2g above may be utilized.

(4) Additional repair parts which may be required for performing authorized depot maintenance are listed with no recommended quantities shown. These parts are identified by an asterisk (*) in the allowance column. If not obtainable by reclamation, fabrication, or local procurement, these parts will be requisitioned as required for immediate use only.

5. How to Find Parts

Parts may be located if one of the following identifying factors is known. All references list the page numbers on which the assembly parts may be found.

a. Function, Use, or Location. Refer to the Table of Contents which lists the titles of all illustrated assemblies or components.

b. Nomenclature (basic noun name). Refer to the Alphabetical Index on page 18.

c. Federal Stock Number. Refer to the Federal Stock Number Index on page 20.

d. Ordnance or Manufacturer's Part Number. Refer to the Ordnance or Manufacturer's Part Number Index on page 21.

6. Attaching Parts

In some cases, non-illustrated attaching and/or closely related items are listed indented directly beneath the items to which they pertain.

7. Abbreviations and Symbols

a. Abbreviations

assy	assembly(ies)
br	brass
cd-or zn-pltd	cadmium or zinc-plated
ck	counter sunk
dia	diameter
dld	drilled
ft	foot(feet)
glvd	galvanized
hd	head
hdls	headless
hv	heavy
IUD	issue until depleted
id	inside diameter
lg	length(long)
lh	left hand
med	medium
MI	malleable iron
mtl	metal
NC	American National Coarse Thread
no.	number(s)
od	olive drab, outside diameter(dimension)
rad	radius
rd-hd	round head
rh	right hand
S	steel
shk	shank
sltd	slotted
sq-hd	square head
thk	thick(ness)
UNC	Unified Coarse Thread
UNF	Unified Fine Thread
w/	with
x	by(as in 2 x 4)

b. Symbols

≠ As required.

* Indicates items authorized for replacement, but not authorized for stock.

8. Explanation of Codes

a. Technical Service Number (column 2a)

3 Chemical Corps

5 Corps of Engineers

8 Medical Corps

10 Quartermaster Corps

11 Signal Corps

12 Adjutant General's Office

55 Transportation Corps

b. Source Codes (Column 2b)

C Applies to repair parts authorized for local procurement. If not obtainable from local procurement, such repair parts will be requisitioned through normal supply channels with a supporting statement of nonavailability from local procurement.

M Applies to repair parts which are not procured or stocked but are to be manufactured by using units at indicated maintenance echelons.

P Applies to repair parts which are high mortality parts; procured by technical services, stocked in and supplied from the technical service depot system, and authorized for use at indicated maintenance echelons.

P1 Applies to repair parts whch are low mortality parts; procured by technical services, stocked only in and supplied from technical service key depots, and authorized for installation at indicated maintenance echelons.

X2 Applies to repair parts which are not stocked. The indicated maintenance echelon requiring such repair parts will attempt to obtain from salvage; if not obtainable from salvage, such repair parts will be requisitioned with supporting justification through normal supply channels.

c. Maintenance Level Code (Column 2c)

O Organizational Maintenance

F Field Maintenance (3rd Echelon)

H Field Maintenance (4th Echelon)

D Depot Maintenance (5th Echelon)

d. Recoverability Code (Column 2d)

N Indicates an item that is nonexpendable and not recoverable.

R Indicates an item or assembly that is expendable and recoverable and is economically repairable and, when available, is furnished by supply on an exchange basis.

S Indicates an item that is expendable and recoverable and which may be placed in "ready for issue" condition by one or more of the refinishing, cleaning, replating, anodizing, adjusting, welding, etc., processes.

NR Indicates an item or assembly that is nonexpendable and recoverable and is economically repairable.

NS Indicates an item that is nonexpendable and recoverable and which may be placed in "ready for issue" condition by one ore more of the refinishing, cleaning, replating, anodizing, adjusting, welding, etc., processes.

9. Manufacturers' Symbols

Symbol	Former Symbol	Manufacturer
24076	GW	Gar Wood Industries, Inc.
50513	RC	Reo Motors, Inc.
78080	SP	Spicer Mfg. Co.
96906	MS	Military Standard
74340	HG	Highway Trailer Co.
	HHH	Halan, H.H. Corp.
77667	RMP	Ramsey Chain Co. Inc.

10. Special Information

When requisitioning kits the user is cautioned to note that in many cases certain components of a kit or set are also available separately. If a component is available separately the item will be listed under the kit entry with a separate Federal stock number and separate issue and allowance data.

11. Suggestions and Recommendations

Notice of discrepancies and recommendations for additions and deletions of repair parts and special tools should be forwarded on DA Form 2028 to Commanding Officer, Raritan Arsenal, Metuchen, New Jersey, Attention: ORDJR-OPRA.

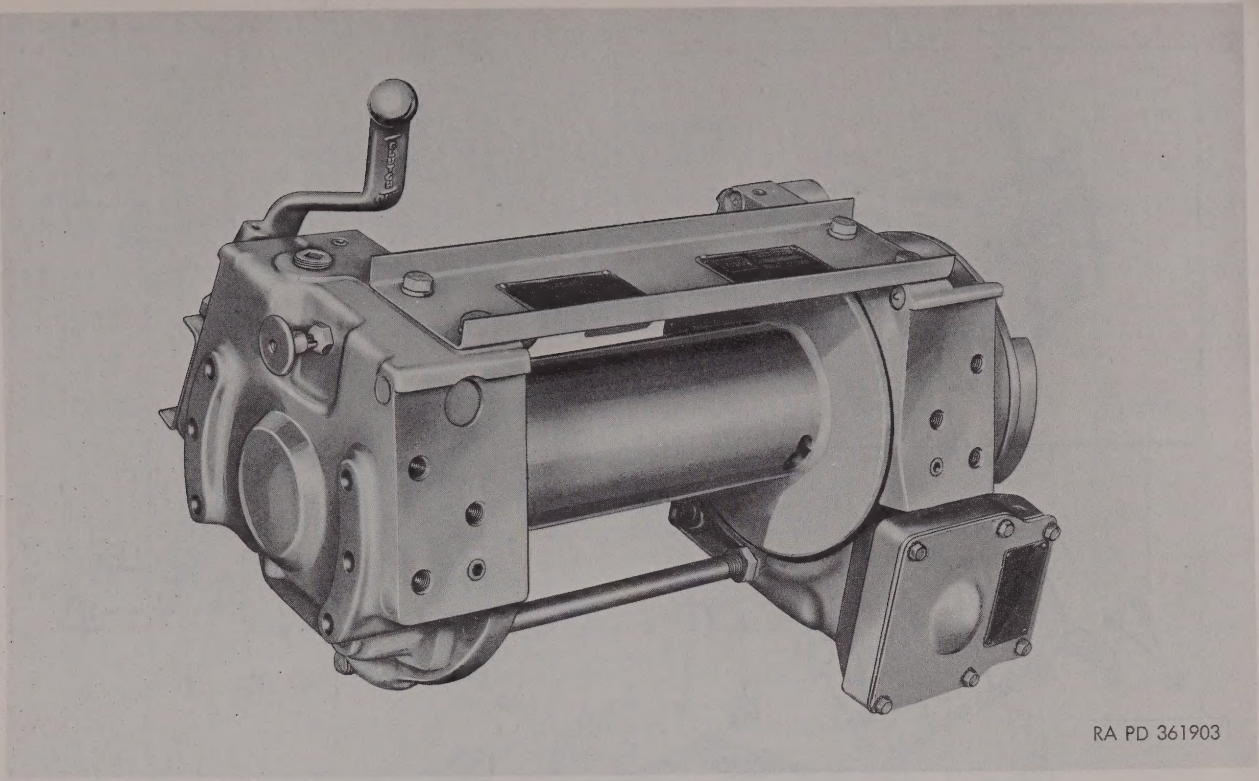


Figure 1. Front winch assembly (3830-753-8687) - right front view.

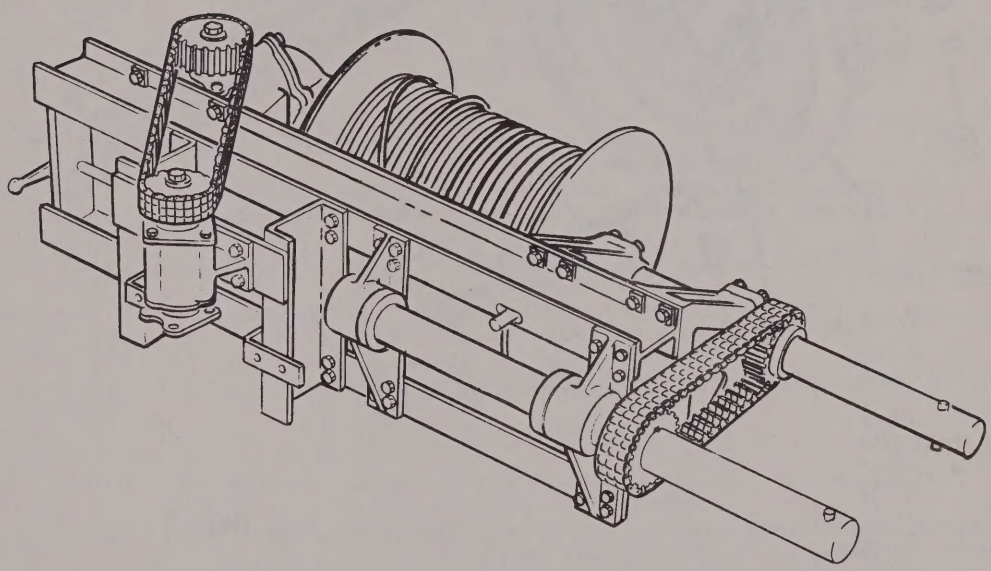
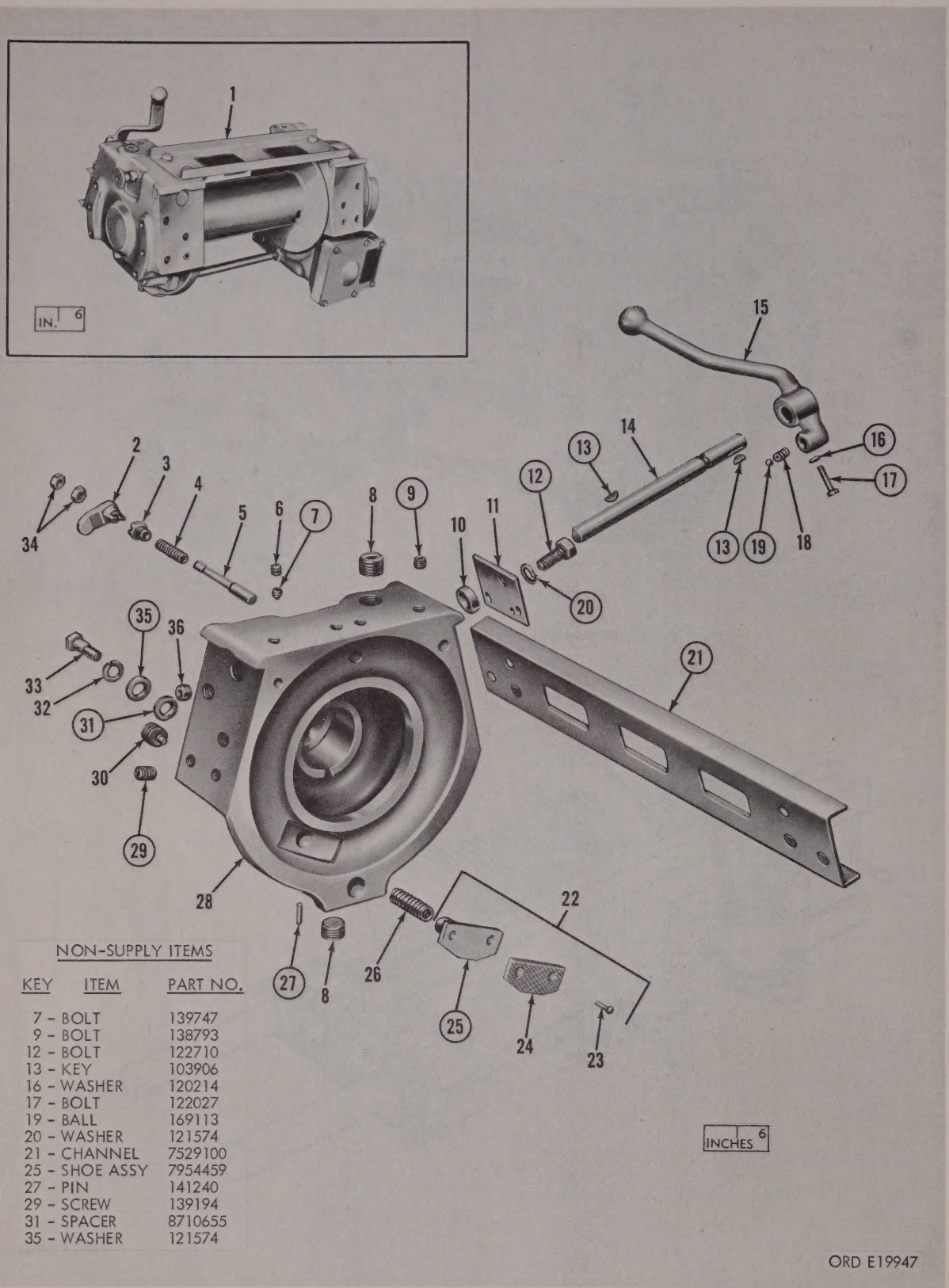


Figure 2. Rear winch assembly (2520-040-2112) - right rear view.

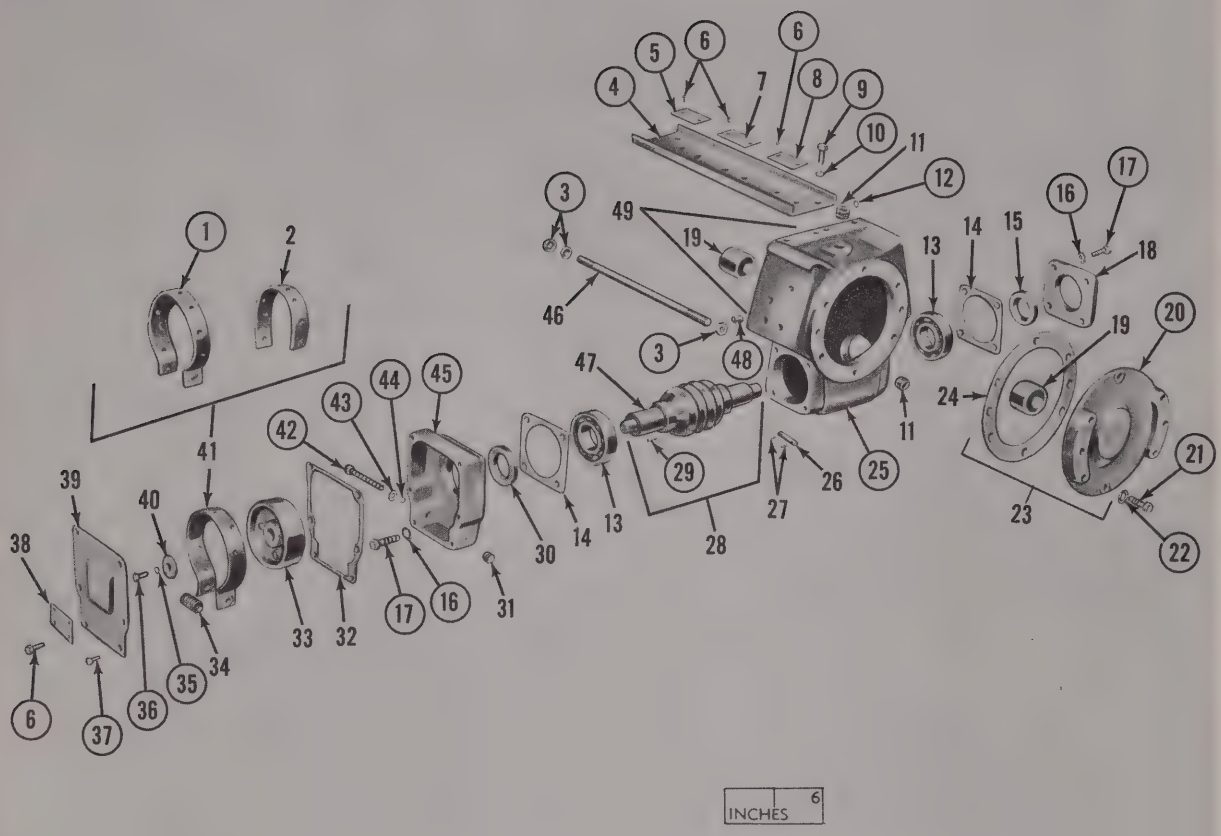


NON-SUPPLY ITEMS

KEY	ITEM	PART NO.
7	BOLT	139747
9	BOLT	138793
12	BOLT	122710
13	KEY	103906
16	WASHER	120214
17	BOLT	122027
19	BALL	169113
20	WASHER	121574
21	CHANNEL	7529100
25	SHOE ASSY	7954459
27	PIN	141240
29	SCREW	139194
31	SPACER	8710655
35	WASHER	121574

Figure 3. Front winch end plate - exploded view.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3)	(4)	(5)	(6)	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8)
(a) FIG NO	(b) ITEM NO	(a) TECHNICAL SERVICE NO	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY	FEDERAL STOCK NO	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UNIT	(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)	DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
							FRONT WINCH					
							FRONT WINCH END PLATE (Fig. 3)					
3	1					3830-753-8687	WINCH, DRUM, VEHICLE MOUNTING: front assy (7538687) (For data and issue allowance refer to the appropriate vehicle field and depot repair parts list for this assembly only.)	ea	1			
3	2		P	O		2540-740-9150	LATCH: drum lock poppet (7409150) ----------	ea	1	.1	.1	10
3	3		P	H		5306-753-8725	NUT: cable drum lock plunger front winch (7538725) -----	ea	1		.2	4
3	4		P	O		2590-753-8706	SPRING, HELICAL, COMPRESSION: cable drum locking plunger (7538706)	ea	1	.2	.2	20
3	5		P	O		2540-753-8724	PLUNGER: locking, cable drum (IUD, then use BOLT, 3830-696-0789) (7538724)	ea	1	.1	.1	10
			P	O		3830-696-0789	BOLT: lock, cable drum (8723828) (Non-illustrated) -----	ea	1	.2	.2	20
3	6	5	P	H		4730-278-3425	PLUG, PIPE: sltd, hdls, S, cd-or zn-pltd, 1/8 in. (cable drum sliding clutch shifter yoke shaft)	ea	2		.4	20
3	8	5	P	O		4730-278-3357	PLUG, PIPE: sq-hd, MI, glvd, 3/4 in. oil filler, drain and level hole, end frame	ea	2	.2	.2	20
3	10		P	H		5330-291-1554	SEAL, PLAIN ENCASED: oil, clutch shifting yoke shaft (7538695)	ea	1		.4	100
3	11		P	H		2540-753-8729	PLATE: pawl, clutch control lever (7538729) ----------	ea	1		*	4
3	14		P	H		2540-753-8734	SHAFT: shifter, cable drum sliding clutch (7538734) -----	ea	1		*	4
3	15		P	H		2540-753-8708	LEVER: control, clutch (7538708) ----------	ea	1		*	4
3	18		P	H		5340-740-9727	SPRING, HELICAL, COMPRESSION: sliding clutch shifter shaft control lever ball (7409727)	ea	1		.4	20
3	22		P	H		2540-753-8726	BRAKE: drag, drum, w/lining, assy (7538726) ----------	ea	1		*	4
3	23		P	H		5320-010-4945	RIVET, TUBULAR: cupped, cd-hd, br, 9/64 x 1/2 1/8 dld shk (104945)	ea	2		1.7	80
3	24		P	H		2590-753-8727	LINING: cable drum drag brake (7538727) ----------	ea	1		.8	40
3	26		P	O		2520-563-4640	SPRING, HELICAL, COMPRESSION: drum drag brake (7538712)	ea	1	.2	.2	20
3	28		P	H		2540-753-8700	FRAME: end (7538700) ----------	ea	1		*	4
			P	H		2540-753-8714	FRAME: end, assy (IUD, then use FRAME, 2540-753-8700) (7538714) (Non-illustrated)	ea	1		*	4
3	30		P	H		5305-753-8733	SETSCREW: adjusting, cable drum drag brake (7538733) -	ea	1		.2	10
3	32		P	O		5310-013-1139	WASHER, LOCK: split, hv, S, cd-or zn-pltd, 9/16 bolt size (131139)	ea	12	1.3	1.3	120
3	33		P	O		5306-753-8709	BOLT, SHOULDER: sp, S, cd-or zn-pltd, 1/2-20NF-3 x 1-3/4 (7538709)	ea	6	.6	.6	60
3	34		P	O		5310-012-0376	NUT, PLAIN, HEXAGON: S, cd-or zn-pltd, 5/16-18UNC-2B, 1/2 w, 17/64 thk drum lock poppet latch (120376)	ea	2	.2	.2	20
3	36		P	H		5340-054-1402	PLUG, EXPANSION: S, 1-1/4 dia end frame (541402) ----	ea	1		.2	10
							NON-ILLUSTRATED ITEMS					
		5	P	O		5340-664-6975	HINGE, BUTT: broad, wrought steel, cd-or zn-pltd, 7 x 3/4 winch control lever lock	ea	1	.2	.2	20
			P	O		5355-753-8705	KNOB: cable drum locking plunger (IUD, then use LATCH, 2540-740-9150 and 2 NUT, 5310-012-0376) (7538705)	ea	1	.1	.1	10



NON-SUPPLY ITEMS

KEY	ITEM	PART NO.	KEY	ITEM	PART NO.
1	BAND ASSY	8690290	21	BOLT	7538710
3	NUT	451081	22	WASHER	120898
4	CHANNEL	7529101	25	CASE	7538699
5	PLATE	8690899	29	KEY	106751
6	SCREW	145373	35	WASHER	120214
8	PLATE	7994966	36	SCREW	120741
9	SCREW	120426	37	SCREW	187527
10	WASHER	120384	42	SCREW	126167
12	BOLT	138793	43	WASHER	120394
16	WASHER	120384	44	O-RING	501220
17	SCREW	122446	45	HOUSING	7538697
20	COVER	7538698	48	BOLT	133870

ORD E19948

Figure 4. Front winch gear case - exploded view.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3)	(4)	(5)	(6)	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8)
(a) FIG NO	(b) ITEM NO	(a) TECHNICAL SERVICE NO	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY	FEDERAL STOCK NO	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UNIT	(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)	DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
							FRONT WINCH GEAR CASE (Fig. 4)					
4	2		P	F		2540-753-8730	LINING, FRICTION: automatic brake band (IUD, then use LINING KIT, 2530-741-2654) (7538730)	ea	1	.4	.4	40
4	7		P	O		2590-753-8793	PLATE, IDENTIFICATION: winch (7538793)	ea	1	*	*	*
4	11	5	P	O		4730-278-3357	PLUG, PIPE: sq-hd, MI, glvd, 3/4 inch oil filler, drain and level hole	ea	3	.3	.3	30
4	13		P	H		3110-144-8669	BEARING, BALL, ANNULAR: MIL-STD-CODE 111-04503-0000 (rad, sr, med, non-loading groove, 1.7717 bore, 3.9370 od, 0.9843 w) (worm shaft) (700338)	ea	2		.2	12
4	14		P	H		2540-753-8728	GASKET: worm shaft bearing cap and automatic brake case (7538728)	ea	2		.4	200
4	15		P	H		5330-695-1170	SEAL: oil, worm shaft bearing drive end (7538704)	ea	1		.4	100
4	18		P	H		2540-753-8732	CAP: worm shaft bearing (7538732)	ea	1		*	4
4	19		P	H		3120-753-8696	BEARING: bushing type, gear case (1), gear case cover (1) (7538696)	ea	2		.4	20
4	23		P	H		2520-741-2651	COVER: drum shaft gear case, w/BEARING, assy (7412651)	ea	1		*	4
4	24		P	H		5330-753-8737	GASKET: gear case cover (7538737)	ea	4		.2	400
4	26		P	O		5315-736-8685	PIN: shear, drive shaft to front winch end yoke (7368685)	ea	1	1.1	.6	100
4	27		P	O		5315-597-7745	PIN, COTTER: S, cd-or zn-pltd, 1/16 x 3/4 (590155)	ea	2	2.4	1.2	200
4	28		P	H		2520-741-2745	WORM: w/KEY, assy (7412745)	ea	1		.2	5
4	30		P	H		5330-286-8149	SEAL, PLAIN ENCASED: S, or semi-rigid non-metallic case, spring loaded sealing member, 1-3/4 shaft dia, 2-7/8 bore dia, 1/2 w worm shaft bearing brake end (500094)	ea	1		.4	100
4	31		P	H		5340-050-1589	PLUG, EXPANSION: S, 1/2 in. dia automatic brake case (501589)	ea	1		.2	10
4	32		P	O		2590-318-4299	GASKET: automatic brake case cover (8333643)	ea	1	.4	.4	100
4	33		P	F		2540-753-8892	BRAKEDRUM: automatic brake (7538892)	ea	1	.1	.1	10
4	34		P	O		3830-699-6379	SPRING: automatic brake adjusting bolt (use only after stock of SPRING, 5340-699-9017 is exhausted) (7099506)	ea	1	.2	.2	20
4	38		P	O		2590-141-1619	PLATE, INSTRUCTION: winch brake adjusting screw (8333645)	ea	1	*	*	*
4	39		P	H		2540-753-8701	COVER: automatic brake case (7538701)	ea	1		*	4
4	40		P	F		5310-527-7972	WASHER, FLAT: brake disk S, 3/8 id, 1-3/4 od, 5/64 thk (5277972)	ea	1	.1	.1	10
4	41		P	O	R	3830-625-4418	BAND: automatic brake, w/LINING, assy (7538731)	ea	1	.1	.1	10
4	46		P	H		5306-753-8735	ROD: guide line (7538735)	ea	1		*	4
4	47		P	H		2540-753-8707	WORM: right, w/integral shaft (IUD, then use WORM, 2520-741-2745) (7538707)	ea	1		.2	5
4	49		P	H		3830-752-9102	CASE: gear, w/bearing, assy (use only after stock of CASE, 2540-753-8699 is exhausted) (7529102)	ea	1		*	4
			P	F		2530-741-2654	LINING KIT: automatic brake (7412654) (Non-illustrated) Composed of: 1 LINING (23862-2286151) 10 RIVET (121573)	ea	1	.4	.4	40

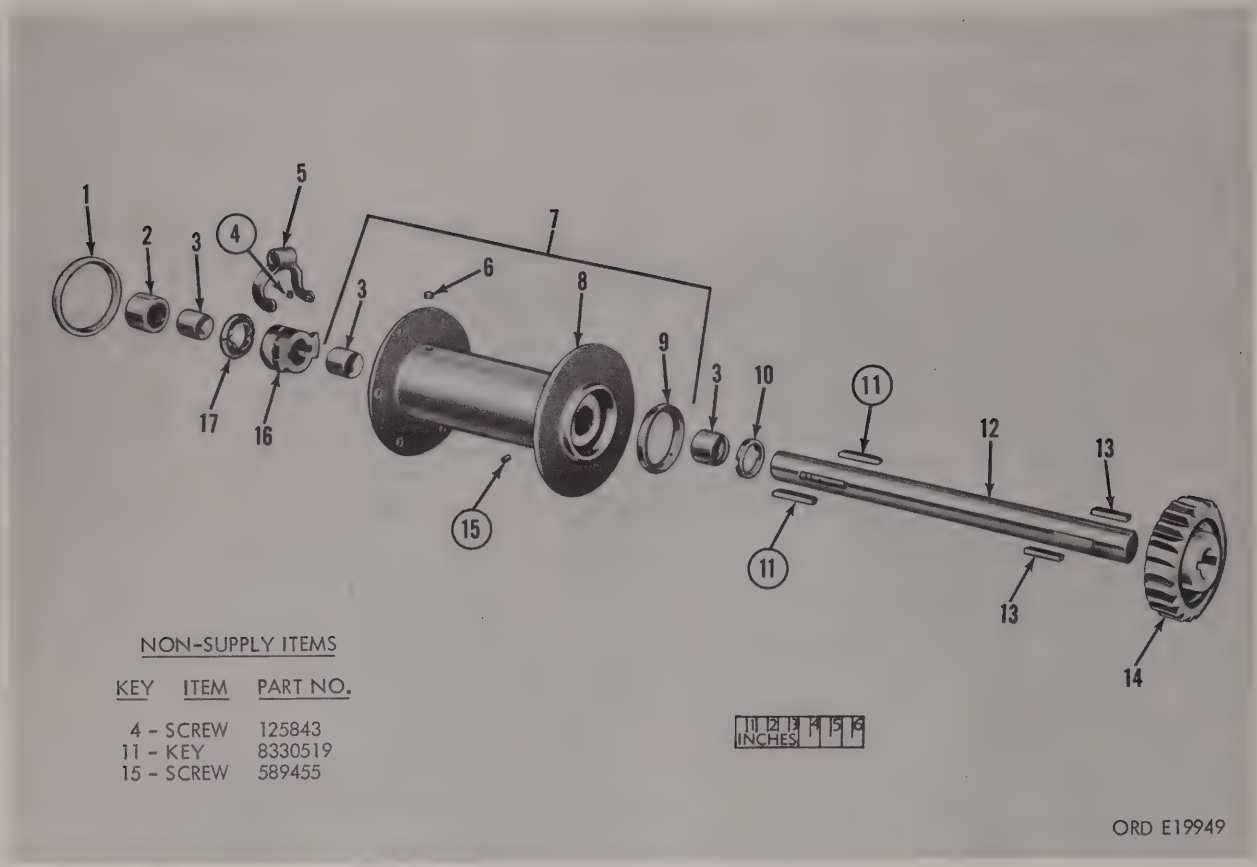


Figure 5. Front winch drum and shaft - exploded view.

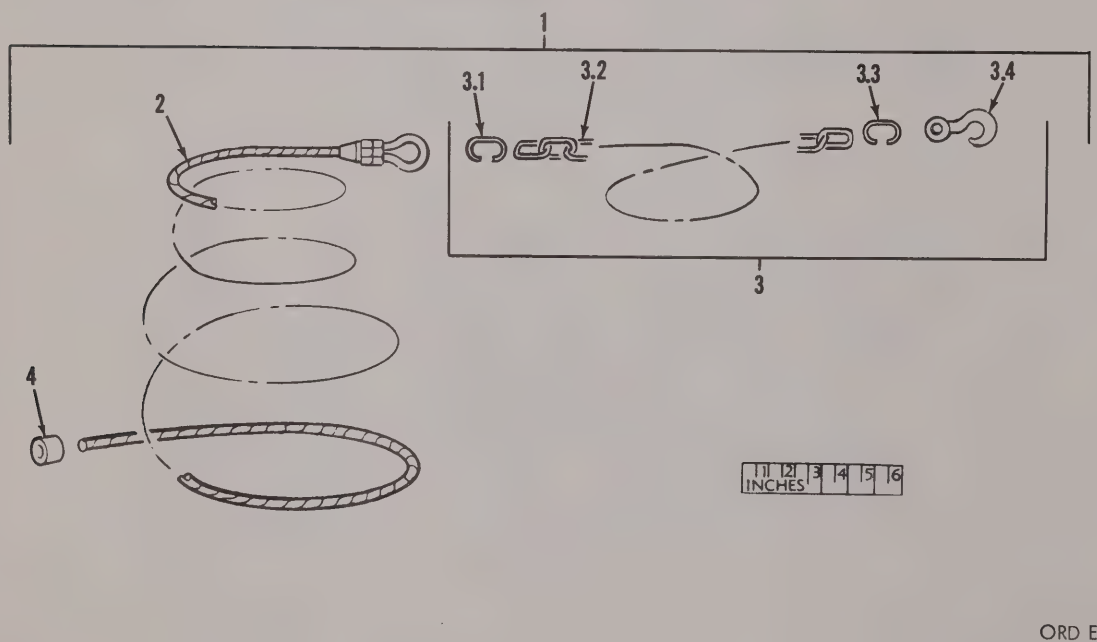


Figure 6. Cable chain and related parts - exploded view.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3)	(4)	(5)	(6)	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8)
(a) FIG NO	(b) ITEM NO	(a) TECHNICAL SERVICE NO	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY	FEDERAL STOCK NO	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UNIT	(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)	DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
							FRONT WINCH DRUM AND SHAFT (Fig. 5)					
5	1		P	H		5330-696-0279	SEAL, PLAIN ENCASED: oil, cable drum (end frame end) (7538694)	ea	1		.4	100
5	2		P	H		3120-753-8711	BEARING: bushing type, end frame (7538711)----------	ea	1		.2	10
5	3		P	H		3120-753-8696	BEARING: bushing type (7538696) ----------	ea	2		.4	20
5	5		P	H		2590-695-3350	YOKE: shifter, clutch (7538723)----------	ea	1		.2	5
5	6	5	P	H		4730-278-3425	PLUG, PIPE: sltd hdls, S, cd-or zn-pltd, 1/8 in. (cable drum sliding clutch shifter yoke shaft)	ea	2		.4	20
5	7		P	H		2520-741-2652	DRUM: assy includes, bearing, plug, drum shaft gear oil seal, and cable clamp setscrew (7412652)	ea	1		*	4
5	8		P	H		2540-753-8690	DRUM: cable, assy (IUD, then use DRUM, 2520-741-2652) (7538690)	ea	1		*	4
5	9		P	H		5330-286-8154	SEAL: oil, type ML, 3-1/2 x 4.506 x 3/8 cable drum gear case end (500261)	ea	1		.4	100
5	10		P	H		2590-753-8703	WASHER THRUST: cable drum (7538703) ----------	ea	1		.2	5
5	12		P	H		2520-741-2656	SHAFT: cable drum, assy (7412656)----------	ea	1		*	4
			P	H		2540-753-8692	SHAFT: cable drum (IUD, then use SHAFT, 2520-741-2656) (7538692) (Non-illustrated)	ea	1		*	4
5	13		P	H		5315-281-7651	KEY, MACHINE: worm driven gear to winch drum (use only after stock of KEY, 5315-741-2653 is exhausted) (8328341)	ea	2		.2	20
5	14		P	H		2520-262-7572	GEAR, WORM WHEEL: driven (7538688) ----------	ea	1		.2	5
5	16		P	H		2540-753-8691	CLUTCH: sliding, cable drum (7538691) ----------	ea	1		.2	5
5	17		P	H		2540-753-8702	WASHER, THRUST: cable drum sliding (7538702)--------	ea	1		.2	5
							CABLE CHAIN AND RELATED PARTS (Fig. 6)					
6	1					2540-508-4700	LINE: assy (7538684) Fabricate from:					
6	2	55	P	O		4010-285-4209	WIRE, ROPE, STEEL: plow, glvd, fiber core, regular lay, 1/2 in. dia, 6 x 19 (cable) 200 ft (ft)	ft		*	*	*
6	3		P	O		2540-368-5015	CHAIN: cable, w/HOOK and LINKS, assy (IUD, then use:	ea	1	.2	.2	10
	3.1	55	P	O		4010-149-5619	LINK: repair, swing, S, 1/2 in. (812-4951-65-050)	ea	1	.2	.2	10
	3.2	55	P	O		4010-286-5646	CHAIN, WELDED: stght link, high carbon-test-S, natural, 1/2 nominal size (4 ft) ft	ft	≠	*	*	80
	3.3	55	P	O		4010-337-8278	LINK, CHAIN, END: repair ----------	ea	1	.4	.4	20
	3.4	55	P	O		4030-161-0354	HOOK, HOIST: sling, direct eye, S, 1/2 in. -------	ea	1	.2	.2	10
6	4	55	P	O		4030-274-6836	THIMBLE, ROPE: S, glvd, for 1/2 in. dia wire rope	ea	1	.2	.2	10
		10				42C1-886-040	CLAMP: wire rope, alloy-S, 1/2 in. (safe-line) type (cable to winch) (42-C-18860-40) (Non-illustrated)	ea	1	.2	.2	10

(1) ILLUST (a) FIG NO	(1) ILLUST (b) ITEM NO	(2) SOURCE, MAINT AND RECOVERABILITY CODE (a) TECHNICAL SERVICE NO	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY	(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP (a) 3RD ECH (DIR SUP)	(7) 15-DAY MAINT ALW PER 100 EQUIP (b) 4TH ECH (GEN SUP)	(8) DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
							REAR WINCH REAR WINCH ASSEMBLY (8329808) (Fig. 7) NOTE The following listed items are all used on both vehicles (V17A/MTQ and V18A/MTQ) unless otherwise indicated. Winch Assembly for model V18A/MTQ is not an item of issue, however many components, as listed herein are available. These items are indicated by model designation.					
7	1					2520-040-2112	WINCH, DRUM, VEHICLE MOUNTING: w/pillow block and auxiliary shaft, assy LH rotation (V17A/MTQ) (8329808) (Refer to TM 9-2320-209-35P for data and issue allowances.)	ea	1			
7	3		P	O		2520-032-2895	CHAIN, SILENT: spindle sprocket 68 pitches (V17A/MTQ) (8329791)	ea	1	.2	.2	5
7	10					2520-318-0928	SPROCKET: (For data and issue allowance, refer to page 17, item 8.)					
7	13		P	F		2540-040-2105	BRACKET: auxiliary shaft bearing (V17A/MTQ) (8329780)	ea	2	*	*	4
7	15					3120-734-0526	BUSHING: (For data and issue allowance, refer to page 17, item 6.)					
7	16					2590-770-1738	COLLAR, SHAFT: (For data and issue allowance, refer to page 17, item 13.)					
7	20		P	O		2520-032-2896	CHAIN, SILENT: rear winch sprocket to pillow block sprocket, w/locking pins, assy 3/4 pitch, 2-1/2 w, 71 pitch lg (V17A/MTQ) (8329792)	ea	1	.2	.2	5
			P	O		3830-773-5950	CHAIN, SILENT: rear winch drive, 2/pins, assy 3/4 pitch, 2-1/2 in. w, 52 pitch lg (V18A/MTQ) (741583) (Non-illustrated)	ea	1	.2	.2	10

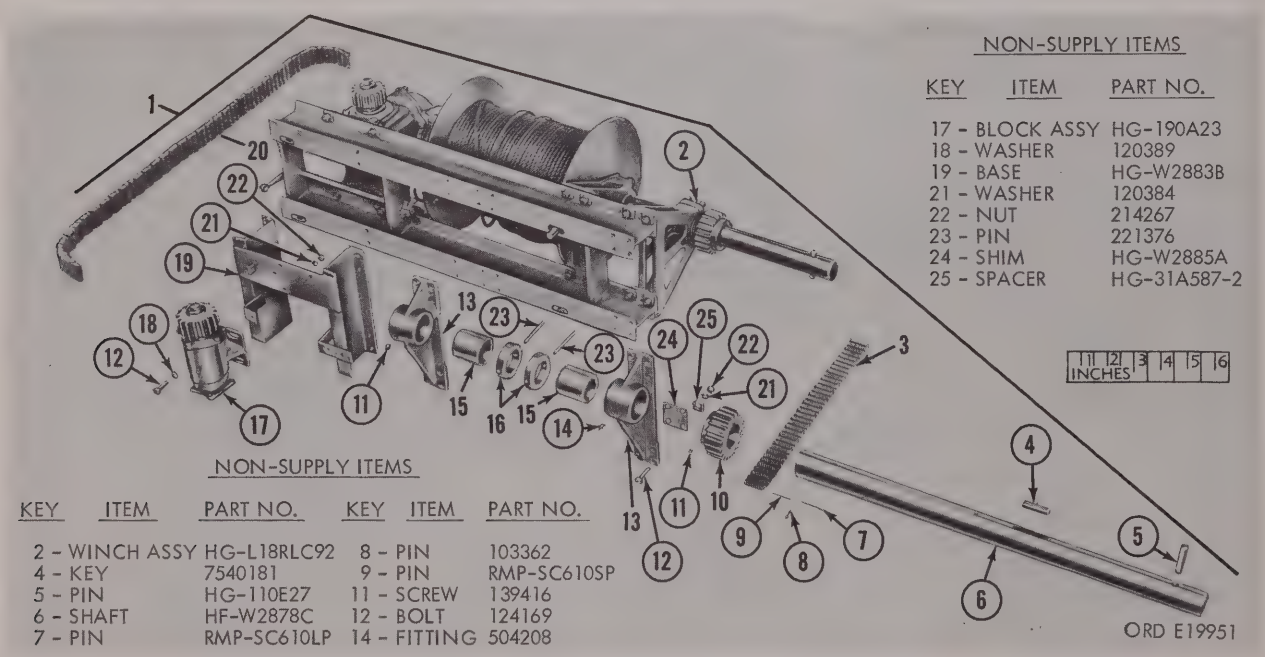


Figure 7. Rear winch assembly (8329808) (V17A/MTQ only) - partial exploded view.

(1) ILLUST (a) FIG NO	(1) ILLUST (b) ITEM NO	(2) SOURCE, MAINT AND RECOVERABILITY CODE (a) TECHNICAL SERVICE NO	(2) (b) SOURCE	(2) (c) MAINTENANCE LEVEL	(2) (d) RECOVERABILITY	(3) FEDERAL STOCK NO	(4) DESCRIPTION	(5) UNIT OF ISSUE	(6) QTY INC IN UNIT	(7) 15-DAY MAINT ALW PER 100 EQUIP (a) 3RD ECH (DIR SUP)	(7) (b) 4TH ECH (GEN SUP)	(8) DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
							PILLOW BLOCK ASSEMBLY (Fig. 8)					
8	4		P	O		2540-040-2126	FLANGE, DRIVE SHAFT: to winch hanger bearing (V17A/MTQ)	ea	1	.1	.1	5
8	5		P	O		5330-286-7059	SEAL, PLAIN ENCASED: S, or semi-rigid non-metallic case, spring loaded sealing member, 2-1/8 shaft dia, 3-1/8 base dia, 1/2 w pillow block shaft (V17A/MTQ) (500135)	ea	2	.4	.4	200
8	9		P	O		3110-100-0800	CUP, TAPERED, ROLLER BEARING: MIL-STD-CODE 711-00333-1000 sr, 3/1496 od, 0.8268 w (pillow block shaft) (rear winch) (V17A/MTQ) (707067)	ea	2	.2	.2	16
8	10		P	O		3110-100-0208	CONE AND ROLLERS, TAPERED, ROLLER BEARING: MIL-STD-CODE 711-00344-3000 sr, stght bore, SI no. 2 tol, 9/64 in. back-face corner rad, 1.5748 in. bore, 0.8820 in. lg (pillow block) (rear winch) (V17A/MTQ) (705023)	ea	2	.2	.2	16

NON-SUPPLY ITEMS

KEY	ITEM	PART NO.
1	PIN	103387
2	NUT	HG-11067
3	WASHER	HG-105E11
6	BOLT	426953
7	RETAINER	HG-119E98
8	SHIM	HG-142E44
11	SHAFT	HG-285B60
12	HOUSING	HG-190A22
13	FITTING	504208
14	SPROCKET	8329805
15	BOLT	HG-142E62
16	NUT	219710
17	KEY	542695

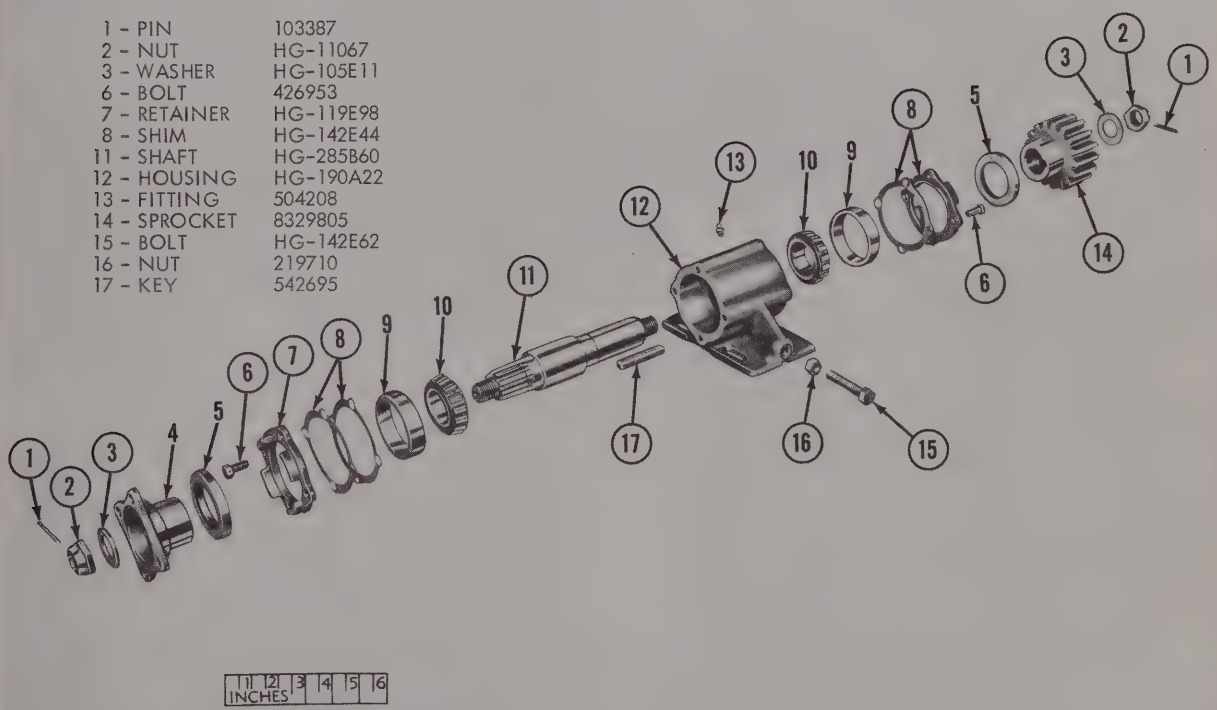
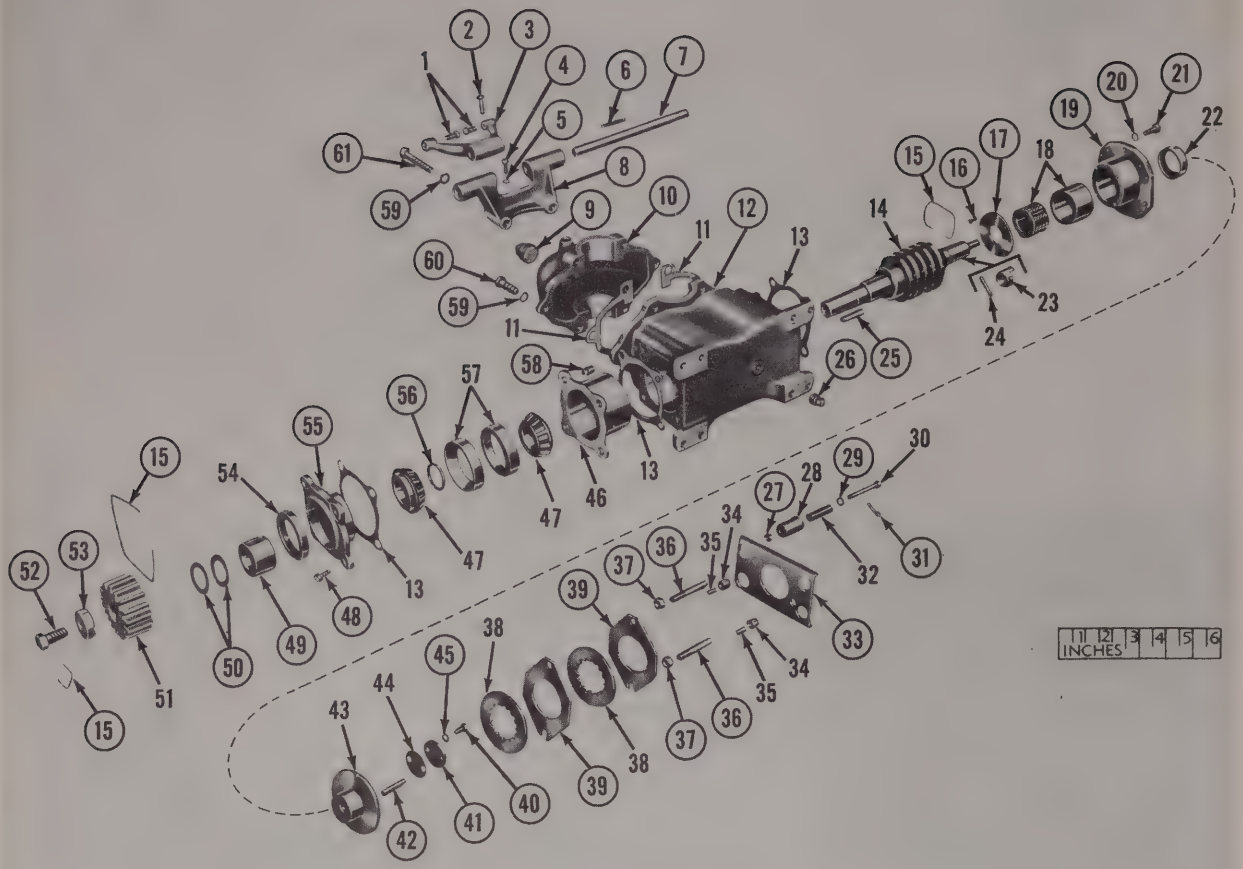


Figure 8. Pillow block assembly - exploded view.



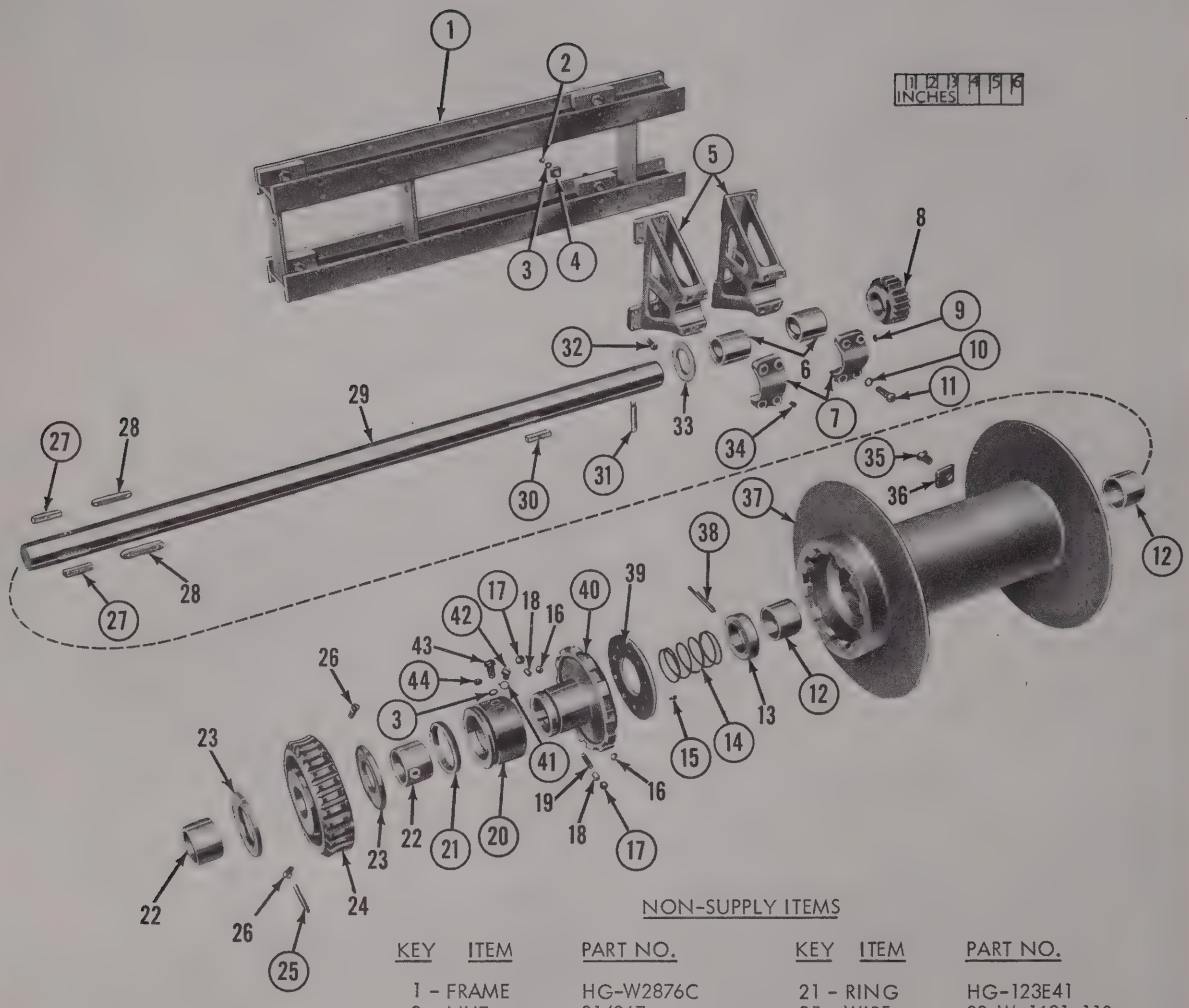
NON-SUPPLY ITEMS

KEY	ITEM	PART NO.	KEY	ITEM	PART NO.
2	RIVET	104091	31	PIN	103373
3	FORK	HG-239B67	33	PLATE	8329801
4	BOLT	120647	36	STUD	HG-110E11
5	WASHER	120382	37	NUT	214267
6	KEY	505761	39	PLATE	8329800
7	SHAFT	HG-127S23	40	BOLT	123520
8	BRACKET	HG-216A97	41	PLATE	7735927
9	PLUG	HG-125E45	42	PIN	8329799
10	COVER	7701745	45	WASHER	138489
12	HOUSING	HG-157A88	48	SCREW	HG-133E17
15	WIRE	22-W-1630	49	SPACER	HG-119E65
16	SCREW	HG-119E62	50	SHIM SET	HG-119E69
17	RETAINER	7701026	52	SCREW	HG-250B79
19	CAGE	HG-176A34	53	SPACER	HG-119E66
20	WASHER	120384	55	RETAINER	7701025
21	BOLT	120234	56	SPACER	HG-110E66
25	KEY	7540181	58	PLUG	219198
26	PLUG	219200	59	WASHER	121574
27	NUT	225831	60	BOLT	430114
29	WASHER	120394	61	BOLT	429739

ORD E19953

Figure 9. Rear winch gear case - exploded view.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3)	(4)	(5)	(6)	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8)
(a) FIG NO	(b) ITEM NO	(a) TECHNICAL SERVICE NO	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY	FEDERAL STOCK NO	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UNIT	(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)	DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
							REAR WINCH GEAR CASE (Fig. 9)					
9	2		P	F		5315-282-0328	PIN: clutch operating fork (8329798)	ea	2	.2	.2	8
9	11		P	F		2590-770-1753	GASKET: worm housing to worm gear housing (7701753)	ea	2	.4	.4	200
9	13		P	F		2590-770-1749	GASKET: bearing cage to worm housing (7701749)	ea	3	.6	.6	300
9	14		P	F		2590-318-0930	WORM: drive, left (V17A/MTQ) (8329809)	ea	1	.1	.1	5
			P	F		2540-770-1754	WORM: drive, right (V18A/MTQ) (7701754) (Non-illustrated)	ea	1	.1	.1	5
9	18		P	F		3110-183-9872	BEARING, ROLLER, JOURNAL: MIL-STD-CODE 323-02496-1300 WR, no inner race, solid outer race, 1.5000 shaft dia, 3.0005 od, 2.0000 w (rear winch worm) (707696)	ea	1	.1	.1	10
9	22		P	F		5330-286-7051	SEAL: oil, type ML, 2 x 3.001 x 1/2 (bearing retainer) (500117)	ea	1	.5	.5	100
9	23		P	F		2540-770-1017	SLEEVE: stop, automatic brake (7701017)	ea	1	.1	.1	4
9	24		P	F		5315-693-0216	PIN: stop sleeve to worm 5/16 x 1-5/8 in. (7367930)	ea	1	.1	.1	4
9	28		P	F		3830-699-6469	THIMBLE: spring seat (7734926)	ea	4	.2	.2	10
9	30		P	F		5306-770-1752	BOLT, MACHINE: spring guide pin 3/8-24NF x 3-1/2 (7701752)	ea	4	.3	.3	10
9	32		P	F		2590-693-0224	SPRING, HELICAL, COMPRESSION: tension, (automatic brake pressure plate) (7701751)	ea	4	.4	.4	24
9	34		P	F		3830-770-1768	RETAINER: worm shaft automatic brake spring seat (7701768)	ea	2	.2	.2	10
9	35		P	F		2530-321-6384	SPRING: tension, (automatic brake lining plate) (8329804)	ea	2	.2	.2	10
9	38		P	F		2530-318-0916	LINING: automatic brake (8328120)	ea	2	.4	.4	20
9	43		P	F		2540-040-2108	NUT: worm automatic brake (V17A/MTQ) (8329797)	ea	1	*	*	4
			P	F		5310-335-4667	NUT: worm brake (V18A/MTQ) (8328119) (Non-illustrated)	ea	1	.1	.1	10
9	44		P	F		2540-770-1755	GASKET: worm drive automatic brake stop pin retaining plate (7701755)	ea	1	.1	.1	5
9	46		P	F		2540-770-6879	SLEEVE: worm thrust bearing seat (7706879)	ea	1	.1	.1	6
9	47		P	F		3110-142-4351	CONE, TAPERED, ROLLER BEARING: MIL-STD-CODE 711-53176-3000 (includes rollers and cage, dr, steep angle, 1.7500 bore, 2.5025) w (705527)	ea	2	.2	.2	40
9	51		P	O		3830-318-0929	SPROCKET: drive worm (8329807)	ea	1	.1	.1	5
9	54		P	F		5330-050-0156	SEAL: oil, type ML, 2-1/2 x 3.505 x 1/2 (bearing ball) (500156)	ea	1	.5	.5	100
9	57		P	F		3110-100-0599	CUP, TAPERED, ROLLER BEARING: MIL-STD-CODE 711-53387-1000 sr, steep angle, 3.8750 od, 0.8125 w (706915)	ea	2	.2	.2	12



NON-SUPPLY ITEMS

KEY	ITEM	PART NO.	KEY	ITEM	PART NO.
1	FRAME	HG-W2876C	21	RING	HG-123E41
2	NUT	214267	25	WIRE	22-W-1631-110
3	WASHER	120384	27	KEY	7367933
4	SPACER	HG-31A587-2	30	KEY	7540181
5	SUPPORT	HG-165A47	31	PIN	HG-110G27
7	CAP	HG-101W17	32	BOLT	120235
9	SCREW	139416	34	FITTING	504208
10	WASHER	121574	35	SCREW	544471
11	BOLT	429730	37	DRUM	HG-101W17
12	BEARING	7701739	38	PIN	221376
14	SPRING	HG-123E43	40	PLATE	HG-239B66
15	RIVET	136593	41	WASHER	178601
17	BALL	145650	42	SCREW	437857
20	SLEEVE	HG-239B65	44	PLUG	444703

Figure 10. Rear winch drum and clutch (V17A/MTQ) - exploded view.

(1) ILLUST		(2) SOURCE, MAINT AND RECOVERABILITY CODE				(3)	(4)	(5)	(6)	(7) 15-DAY MAINT ALW PER 100 EQUIP		(8)
(a) FIG NO	(b) ITEM NO	(a) TECHNICAL SERVICE NO	(b) SOURCE	(c) MAINTENANCE LEVEL	(d) RECOVERABILITY	FEDERAL STOCK NO	DESCRIPTION	UNIT OF ISSUE	QTY INC IN UNIT	(a) 3RD ECH (DIR SUP)	(b) 4TH ECH (GEN SUP)	DEPOT MAINT GUIDE PER 100 EQUIP (5TH ECH)
							REAR WINCH DRUM AND CLUTCH (Fig. 10)					
10	6		P	F		3120-734-0526	BUSHING: bz, 2-1/2 id, 3 od, 3 lg (7340526)					
							auxiliary shaft brkt. (V17A/MTQ)	ea	2	.4	.4	200
							drum shaft support (V17A/MTQ)	ea	2	.4	.4	200
							(Not-illustrated) drum shaft support (V18A/MTQ)	ea	1	.2	.2	100
10	8		P	O		2520-318-0928	SPROCKET: drive auxiliary shaft spindle (8329806) ------- (V17A/MTQ)	ea	2	.2	.2	10
10	13		P	O		2590-770-1738	COLLAR, SHAFT: (7701738)					
							retaining, drum shaft (V17A/MTQ)	ea	3	.2	.2	8
							(V18A/MTQ application) (Not-illustrated)	ea	1	.1	.1	4
10	16		P	F		5840-622-7035	BALL: detent S, 17/32 in. (7538042) ----------	ea	2	.1	.1	8
10	18		P	F		2540-734-0527	DETENT: spring to ball (7340527) ----------	ea	2	.2	.2	8
10	19		P	F		3830-569-8664	SPRING: detent (7340529) ----------	ea	1	.2	.2	8
10	22		P	F		3120-770-1750	BEARING: bushing type, drum shaft to worm gear housing (7701750)	ea	2	.4	.4	200
10	23		P	F		3120-770-1761	WASHER: thrust, worm gear to housing (7701761) ---------	ea	2	.1	.1	5
10	24		P	F		2520-318-0926	GEAR, WORM: drum shaft, drive, left (V17A/MTQ) (8329794)	ea	1	.1	.1	5
10	26		P	F		5305-692-1728	SCREW: set, worm gear to shaft (7368186) ----------	ea	2	.2	.2	8
10	28		P	F		5315-335-4492	KEY: square, sliding clutch member to drum shaft 1/2 x 3-5/8 in. (7340523)	ea	2	.2	.2	20
10	29		P	F		2530-040-2110	SHAFT: drum (V17A/MTQ) (8329803) ----------	ea	1	*	*	5
10	33		P	F		5310-770-1763	WASHER, FLAT: thrust, drum (7701763) ----------	ea	1	.1	.1	5
10	36		P	O		3830-321-6383	CLAMP: cable end to drum 7/16 wire rope (8329793) ------	ea	1	.1	.1	4
10	39		P	F		2540-773-5940	LINING, FRICTION: drum brake (7735940) ----------	ea	1	.4	.4	20
10	43		P	F		5305-335-4669	SCREW: cap, detent sleeve (8329802) ----------	ea	1	.1	.1	4
			P	O		2540-040-2107	HOLDER: winch line, assy rear winch (V17A/MTQ) (8329796) (Non-illustrated)	ea	1	.2	.2	4

SECTION IV - INDEXES

ALPHABETICAL INDEX

This index does not include any Special Tools. Standard hardware and attaching parts are not included because of their common and multiplication application in the supply system.

Item	Page
BAND, W/lining	9
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Worm shaft	9
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BOLT SHOULDER	7
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ORDNANCE AND MANUFACTURER'S PART NUMBER INDEX

This index is prepared in strict numerical sequence; that is, all letters or dashes prefixed, suffixed, or interspersed in the numbers are disregarded. For instance: 33-H-770 is in sequence as 33770, but the complete number is shown in the listing. All Ordnance numbers appear without any symbol prefix. Standard hardware items are not included in this index because of their common application. All numbers prefixed by a series of 5 numbers followed by a dash (e.g., 63477-FC5917) indicate a Manufacturer's or Military Standard part number. A cross-reference of these 5-digit numbers to their related commodity will be found in Section I - Preface under "Manufacturer's Symbols."

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For explanation of abbreviations used see AR 320-50.

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